

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
9 December 2004 (09.12.2004)

PCT

(10) International Publication Number
WO 2004/106371 A1

(51) International Patent Classification⁷: C07K 14/47, A61K 38/00

(21) International Application Number: PCT/IL2004/000461

(22) International Filing Date: 31 May 2004 (31.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 156263 2 June 2003 (02.06.2003) IL

(71) Applicant (for all designated States except US): HAD-ASIT MEDICAL RESEARCH SERVICES & DEVELOPMENT LTD. [IL/IL]; P.O. Box 12000, 91120 Jerusalem (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BEN-YEHUDA, Dina [IL/IL]; 4 Mevo Yahalom Street, 90805 Mevaseret Zion (IL). ASHHAB, Yaqoub [IL/IL]; P.O. Box 384, West Bank, Hebron (IL). NACHMIAS, Boaz [IL/IL]; 15 Rozen Street, 52224 Ramat-Gan (IL).

(74) Agents: LUZZATTO, Kfir et al.; P.O. Box 5352, Beer Sheva, 84152 (IL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/106371 A1

(54) Title: LIVIN-DERIVED PEPTIDES, COMPOSITIONS AND USES THEREOF

(57) Abstract: The present invention relates to livin-derived peptides with pro-apoptotic activity. More specifically, the present invention provides peptides p30-Livin α and p28-Livin β , derived from Livin α and β , respectively, as well as compositions thereof. These herein described peptides display pro-apoptotic activity. Thus, another object of the present invention is the use of the peptides or compositions thereof for the enhancement and/or induction of apoptosis, as well as for the treatment of cancer. Finally, the invention also provides a method of enhancing the sensitivity of cells to death-inducing treatments or agents through the use of the peptides of the invention.